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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/257,208	02/25/1999	D. CHRISTOPHER DRYER	AM9-98-093	1871

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EXAMINER

SAX, STEVEN PAUL

ART UNIT PAPER NUMBER

2174

DATE MAILED: 09/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

091257208

Applicant(s)

Dryer et al

Examiner

Sax

Group Art Unit

2174

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—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Response

A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET TO EXPIRE 3- MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a response be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for response is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to respond within the set or extended period for response will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on 7/12/02
- ☒ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 1 1; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-55 is/are pending in the application.
- ☐ Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 1-55 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
- ☐ received.
- ☐ received in Application No. (Series Code/Serial Number) _____.
- ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☒ Information Disclosure Statement(s), PTO-1449, Paper No(s) 11
- ☐ Notice of References Cited, PTO-892
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other _____

Office Action Summary

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DETAILED ACTION

1. This application has been examined. The amendment filed 7/12/02 has been entered.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ball et al (6212502 B1) and Tognazzini et al (5886683).

4. Regarding claim 1, Ball et al show unobtrusive system for detecting a subject's level of arousal and interest (column 4 lines 55-68, column 5 lines 1-5, column 8 lines 43-55, column 9 lines 11-30). Ball et al do not specifically show what the subject is 'attending' but do mention detecting attentiveness. Furthermore, Tognazzini et al do show detecting what a subject is gazing at or 'attending to' (column 5 lines 54-68, column 6 lines 1-25, column 8 lines 5-19) to determine attentiveness to media images and objects on a network. The web browser information (column 11 lines 15-45) are all examples of media. It would have been obvious to a person with ordinary skill in the art to include the gaze detection feature of Tognazzini et al in

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the interest and arousal detection system of Ball et al, because it would provide an efficient and convenient way to detect attentiveness. The gaze tracker device (Tognazzini column 9 lines 45-60) is in real time.

5. Regarding claim 2, Tognazzini et al show as explained above the gaze determination.

6. Regarding claim 3, Tognazzini et al show determining the fixation time of the gaze (column 10 lines 35-44).

7. Regarding claim 4, Tognazzini et al show in column 11 lines 15-45 the detecting attention to media content.

8. Regarding claims 5-10, Ball et al show column 8 lines 5-29 measuring the subject's facial expressions, head gestures, and speech.

9. Regarding claim 11, Ball et al show providing relevance feedback (column 8 lines 10-12). So does Tognazzini et al (column 6 lines 19-25).

10. Claims 12-55 show the same features as above and are rejected for the same reasons.

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11. Applicant's arguments filed have been fully considered but they are not persuasive.

Applicants discuss how Ball does not detect the subject's object of attention but note that this is brought out in Tognazzini as shown above. But when applicants discuss Tognazzini they immediately go into arguments regarding facial expressions. If applicants intend this to be the focus of the invention they are invited to incorporate those features into the independent claims. Also note that the gaze tracker device (Tognazzini column 9 lines 45-60) is in real time. Note that the claims as recited do not set forth beyond the art. Applicants are invited to contact examiner to discuss claim interpretation at 703-305-9582.

Note though that the 112 rejection has been removed in favor of the amendment.

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

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will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

13. Any inquiry concerning this communication should be directed to Steve Sax at telephone number (703) 305-9582.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Sax whose telephone number is (703) 305-9582. The examiner can normally be reached on Monday - Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid, can be reached on (703) 308-0640.

The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(703) 746-7238	After Final Communication
(703) 746-7239	Official Communication
(703) 746-7420	For Status Inquiries, draft communication

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.


STEVEN SAX
PRIMARY EXAMINER